

1                   **TITLE I—ENERGY**  
2                   **CONSERVATION**  
3       **Subtitle A—Federal Leadership in**  
4                   **Energy Conservation**

5       **SEC. 1001. ENERGY AND WATER SAVING MEASURES IN CON-**  
6                   **GRESSIONAL BUILDINGS.**

7           (a) IN GENERAL.—Part 3 of title V of the National  
8       Energy Conservation Policy Act is amended by adding at  
9       the end:

10   **“SEC. 552. ENERGY AND WATER SAVINGS MEASURES IN**  
11                   **CONGRESSIONAL BUILDINGS.**

12           “(a) IN GENERAL.—The Architect of the Capitol—

13                   “(1) shall develop, update, and implement a  
14       cost-effective energy conservation and management  
15       plan (referred to in this section as the “plan”) for  
16       all facilities administered by the Congress (referred  
17       to in this section as ‘congressional buildings’) to  
18       meet the energy performance requirements for Fed-  
19       eral buildings established under section 543(a)(1);  
20       and

21                   “(2) shall submit the plan to Congress, not  
22       later than 180 days after the date of enactment of  
23       this section.

24           “(b) PLAN REQUIREMENTS.—The plan shall  
25       include—

1           “(1) a description of the life cycle cost analysis  
2           used to determine the cost-effectiveness of proposed  
3           energy efficiency projects;

4           “(2) a schedule of energy surveys to ensure  
5           complete surveys of all congressional buildings every  
6           5 years to determine the cost and payback period of  
7           energy and water conservation measures;

8           “(3) a strategy for installation of life cycle cost-  
9           effective energy and water conservation measures;

10          “(4) the results of a study of the costs and ben-  
11          efits of installation of submetering in congressional  
12          buildings; and

13          “(5) information packages and ‘how-to’ guides  
14          for each Member and employing authority of Con-  
15          gress that detail simple, cost-effective methods to  
16          save energy and taxpayer dollars in the workplace.

17          “(c) ANNUAL REPORT.—The Architect shall submit  
18          to Congress annually a report on congressional energy  
19          management and conservation programs required under  
20          this section that describes in detail—

21               “(1) energy expenditures and savings estimates  
22               for each facility;

23               “(2) energy management and conservation  
24               projects; and

1           “(3) future priorities to ensure compliance with  
2           this section.”.

3           (b) TABLE OF CONTENTS AMENDMENT.—The table  
4 of contents of the National Energy Conservation Policy  
5 Act is amended by adding at the end of the items relating  
6 to part 3 of title V the following new item:

“Sec. 552. Energy and water savings measures in congressional buildings.”.

7           (c) REPEAL.—Section 310 of the Legislative Branch  
8 Appropriations Act, 1999 (40 U.S.C. 166i), is repealed.

9           (d) ENERGY INFRASTRUCTURE.—The Architect of  
10 the Capitol, building on the Master Plan Study completed  
11 in July 2000, shall commission a study to evaluate the  
12 energy infrastructure of the Capital Complex to determine  
13 how the infrastructure could be augmented to become  
14 more energy efficient, using unconventional and renewable  
15 energy resources, in a way that would enable the Complex  
16 to have reliable utility service in the event of power fluc-  
17 tuations, shortages, or outages.

18           (e) AUTHORIZATION.—There are authorized to be ap-  
19 propriated to the Architect of the Capitol to carry out sub-  
20 section (d), not more than \$2,000,000 for fiscal years  
21 after the enactment of this Act.

22 **SEC. 1002. ENERGY MANAGEMENT REQUIREMENTS.**

23           (a) ENERGY REDUCTION GOALS.—

24               (1) AMENDMENT.—Section 543(a)(1) of the  
25 National Energy Conservation Policy Act (42 U.S.C.

1       8253(a)(1)) is amended by striking “its Federal  
2       buildings so that” and all that follows through the  
3       end and inserting “the Federal buildings of the  
4       agency (including each industrial or laboratory facil-  
5       ity) so that the energy consumption per gross square  
6       foot of the Federal buildings of the agency in fiscal  
7       years 2004 through 2013 is reduced, as compared  
8       with the energy consumption per gross square foot  
9       of the Federal buildings of the agency in fiscal year  
10      2001, by the percentage specified in the following  
11      table:

<b>“Fiscal Year</b>	<b>Percentage reduction</b>
2004 .....	2
2005 .....	4
2006 .....	6
2007 .....	8
2008 .....	10
2009 .....	12
2010 .....	14
2011 .....	16
2012 .....	18
2013 .....	20.”.

12           (2) REPORTING BASELINE.—The energy reduc-  
13       tion goals and baseline established in paragraph (1)  
14       of section 543(a) of the National Energy Conserva-  
15       tion Policy Act, as amended by paragraph (1) of this  
16       subsection, supersede all previous goals and base-  
17       lines under such paragraph, and related reporting  
18       requirements.

19       (b) REVIEW AND REVISION OF ENERGY PERFORM-  
20       ANCE REQUIREMENT.—Section 543(a) of the National

1 Energy Conservation Policy Act (42 U.S.C. 8253(a)) is  
2 further amended by adding at the end the following:

3 “(3) Not later than December 31, 2012, the Sec-  
4 retary shall review the results of the implementation of  
5 the energy performance requirement established under  
6 paragraph (1) and submit to Congress recommendations  
7 concerning energy performance requirements for fiscal  
8 years 2014 through 2023.”.

9 (c) EXCLUSIONS.—Section 543(c)(1) of the National  
10 Energy Conservation Policy Act (42 U.S.C. 8253(c)(1))  
11 is amended by striking “An agency may exclude” and all  
12 that follows through the end and inserting “(A) An agency  
13 may exclude, from the energy performance requirement  
14 for a fiscal year established under subsection (a) and the  
15 energy management requirement established under sub-  
16 section (b), any Federal building or collection of Federal  
17 buildings, if the head of the agency finds that—

18 “(i) compliance with those requirements would  
19 be impracticable;

20 “(ii) the agency has completed and submitted  
21 all federally required energy management reports;

22 “(iii) the agency has achieved compliance with  
23 the energy efficiency requirements of this Act, the  
24 Energy Policy Act of 1992, Executive Orders, and  
25 other Federal law; and

1           “(iv) the agency has implemented all prac-  
2           ticable, life cycle cost-effective projects with respect  
3           to the Federal building or collection of Federal  
4           buildings to be excluded.

5           “(B) A finding of impracticability under subpara-  
6           graph (A)(i) shall be based on—

7           “(i) the energy intensiveness of activities car-  
8           ried out in the Federal building or collection of Fed-  
9           eral buildings; or

10           “(ii) the fact that the Federal building or col-  
11           lection of Federal buildings is used in the perform-  
12           ance of a national security function.”.

13           (d) REVIEW BY SECRETARY.—Section 543(c)(2) of  
14           the National Energy Conservation Policy Act (42 U.S.C.  
15           8253(c)(2)) is amended—

16           (1) by striking “impracticability standards” and  
17           inserting “standards for exclusion”; and

18           (2) by striking “a finding of impracticability”  
19           and inserting “the exclusion”.

20           (e) CRITERIA.—Section 543(c) of the National En-  
21           ergy Conservation Policy Act (42 U.S.C. 8253(c)) is fur-  
22           ther amended by adding at the end the following:

23           “(3) Not later than 180 days after the date of enact-  
24           ment of this paragraph, the Secretary shall issue guide-

1 lines that establish criteria for exclusions under paragraph  
2 (1).”.

3 (f) RETENTION OF ENERGY SAVINGS.—Section 546  
4 of the National Energy Conservation Policy Act (42  
5 U.S.C. 8256) is amended by adding at the end the fol-  
6 lowing new subsection:

7 “(e) RETENTION OF ENERGY SAVINGS.—An agency  
8 may retain any funds appropriated to that agency for en-  
9 ergy expenditures, at buildings subject to the requirements  
10 of section 543(a) and (b), that are not made because of  
11 energy savings. Except as otherwise provided by law, such  
12 funds may be used only for energy efficiency or unconven-  
13 tional and renewable energy resources projects.”.

14 (g) REPORTS.—Section 548(b) of the National En-  
15 ergy Conservation Policy Act (42 U.S.C. 8258(b)) is  
16 amended—

17 (1) in the subsection heading, by inserting

18 “THE PRESIDENT AND” before “CONGRESS”; and

19 (2) by inserting “President and” before “Con-  
20 gress”.

21 (h) CONFORMING AMENDMENT.—Section 550(d) of  
22 the National Energy Conservation Policy Act (42 U.S.C.  
23 8258b(d)) is amended in the second sentence by striking  
24 “the 20 percent reduction goal established under section  
25 543(a) of the National Energy Conservation Policy Act

1 (42 U.S.C. 8253(a)).” and inserting “each of the energy  
2 reduction goals established under section 543(a).”.

3 **SEC. 1003. ENERGY USE MEASUREMENT AND ACCOUNT-**  
4 **ABILITY.**

5 Section 543 of the National Energy Conservation  
6 Policy Act (42 U.S.C. 8253) is further amended by adding  
7 at the end the following:

8 “(e) METERING OF ENERGY USE.—

9 “(1) DEADLINE.—By October 1, 2010, in ac-  
10 cordance with guidelines established by the Sec-  
11 retary under paragraph (2), all Federal buildings  
12 shall, for the purposes of efficient use of energy and  
13 reduction in the cost of electricity used in such  
14 buildings, be metered or submetered. Each agency  
15 shall use, to the maximum extent practicable, ad-  
16 vanced meters or advanced metering devices that  
17 provide data at least daily and that measure at least  
18 hourly consumption of electricity in the Federal  
19 buildings of the agency. Such data shall be incor-  
20 porated into existing Federal energy tracking sys-  
21 tems and made available to Federal facility energy  
22 managers.

23 “(2) GUIDELINES.—

24 “(A) IN GENERAL.—Not later than 180  
25 days after the date of enactment of this sub-



1 section, the Secretary, in consultation with the  
2 Department of Defense, the General Services  
3 Administration, representatives from the meter-  
4 ing industry, utility industry, energy services in-  
5 dustry, energy efficiency industry, national lab-  
6 oratories, universities, and Federal facility en-  
7 ergy managers, shall establish guidelines for  
8 agencies to carry out paragraph (1).

9 “(B) REQUIREMENTS FOR GUIDELINES.—

10 The guidelines shall—

11 “(i) take into consideration—

12 “(I) the cost of metering and  
13 submetering and the reduced cost of  
14 operation and maintenance expected  
15 to result from metering and sub-  
16 metering;

17 “(II) the extent to which meter-  
18 ing and submetering are expected to  
19 result in increased potential for en-  
20 ergy management, increased potential  
21 for energy savings and energy effi-  
22 ciency improvement, and cost and en-  
23 ergy savings due to utility contract  
24 aggregation; and

1 “(III) the measurement and ver-  
2 ification protocols of the Department  
3 of Energy;

4 “(ii) include recommendations con-  
5 cerning the amount of funds and the num-  
6 ber of trained personnel necessary to gath-  
7 er and use the metering information to  
8 track and reduce energy use;

9 “(iii) establish priorities for types and  
10 locations of buildings to be metered and  
11 submetered based on cost-effectiveness and  
12 a schedule of one or more dates, not later  
13 than 1 year after the date of issuance of  
14 the guidelines, on which the requirements  
15 specified in paragraph (1) shall take effect;  
16 and

17 “(iv) establish exclusions from the re-  
18 quirements specified in paragraph (1)  
19 based on the de minimis quantity of energy  
20 use of a Federal building, industrial proc-  
21 ess, or structure.

22 “(3) PLAN.—No later than 6 months after the  
23 date guidelines are established under paragraph (2),  
24 in a report submitted by the agency under section  
25 548(a), each agency shall submit to the Secretary a

1 plan describing how the agency will implement the  
2 requirements of paragraph (1), including (A) how  
3 the agency will designate personnel primarily respon-  
4 sible for achieving the requirements and (B) dem-  
5 onstration by the agency, complete with documenta-  
6 tion, of any finding that advanced meters or ad-  
7 vanced metering devices, as defined in paragraph  
8 (1), are not practicable.”.

9 **SEC. 1004. FEDERAL BUILDING PERFORMANCE STAND-**  
10 **ARDS.**

11 Section 305(a) of the Energy Conservation and Pro-  
12 duction Act (42 U.S.C. 6834(a)) is amended—

13 (1) in paragraph (2)(A), by striking “CABO  
14 Model Energy Code, 1992” and inserting “the 2000  
15 International Energy Conservation Code”; and

16 (2) by adding at the end the following:

17 “(3) REVISED FEDERAL BUILDING ENERGY EFFI-  
18 CIENCY PERFORMANCE STANDARDS.—

19 “(A) IN GENERAL.—Not later than 1 year after  
20 the date of enactment of this paragraph, the Sec-  
21 retary of Energy shall establish, by rule, revised  
22 Federal building energy efficiency performance  
23 standards that require that, if cost-effective, for new  
24 Federal buildings—

1           “(i) such buildings be designed so as to  
2           achieve energy consumption levels at least 30  
3           percent below those of the most recent  
4           ASHRAE Standard 90.1 or the most recent  
5           version of the International Energy Conserva-  
6           tion Code, as appropriate; and

7           “(ii) sustainable design principles are ap-  
8           plied to the siting, design, and construction of  
9           all new and replacement buildings.

10          “(B) ADDITIONAL REVISIONS.—Not later than  
11          1 year after the date of approval of amendments to  
12          ASHRAE Standard 90.1 or the 2000 International  
13          Energy Conservation Code, the Secretary of Energy  
14          shall determine, based on the cost-effectiveness of  
15          the requirements under the amendments, whether  
16          the revised standards established under this para-  
17          graph should be updated to reflect the amendments.

18          “(C) STATEMENT ON COMPLIANCE OF NEW  
19          BUILDINGS.—In the budget request of the Federal  
20          agency for each fiscal year and each report sub-  
21          mitted by the Federal agency under section 548(a)  
22          of the National Energy Conservation Policy Act (42  
23          U.S.C. 8258(a)), the head of each Federal agency  
24          shall include—

1 “(i) a list of all new Federal buildings  
2 owned, operated, or controlled by the Federal  
3 agency; and

4 “(ii) a statement concerning whether the  
5 Federal buildings meet or exceed the revised  
6 standards established under this paragraph.”.

7 **SEC. 1005. PROCUREMENT OF ENERGY EFFICIENT PROD-**  
8 **UCTS.**

9 (a) REQUIREMENTS.—Part 3 of title V of the Na-  
10 tional Energy Conservation Policy Act is amended by add-  
11 ing at the end the following:

12 **“SEC. 553. FEDERAL PROCUREMENT OF ENERGY EFFI-**  
13 **CIENT PRODUCTS.**

14 “(a) DEFINITIONS.—In this section:

15 “(1) ENERGY STAR PRODUCT.—The term ‘En-  
16 ergy Star product’ means a product that is rated for  
17 energy efficiency under an Energy Star program.

18 “(2) ENERGY STAR PROGRAM.—The term ‘En-  
19 ergy Star program’ means the program established  
20 by section 324A of the Energy Policy and Conserva-  
21 tion Act.

22 “(3) EXECUTIVE AGENCY.—The term ‘executive  
23 agency’ has the meaning given the term in section  
24 4 of the Office of Federal Procurement Policy Act  
25 (41 U.S.C. 403).

1           “(4) FEMP DESIGNATED PRODUCT.—The term  
2           ‘FEMP designated product’ means a product that is  
3           designated under the Federal Energy Management  
4           Program of the Department of Energy as being  
5           among the highest 25 percent of equivalent products  
6           for energy efficiency.

7           “(b) PROCUREMENT OF ENERGY EFFICIENT PROD-  
8           UCTS.—

9           “(1) REQUIREMENT.—To meet the require-  
10          ments of an executive agency for an energy con-  
11          suming product, the head of the executive agency  
12          shall, except as provided in paragraph (2), procure—

13                   “(A) an Energy Star product; or

14                   “(B) a FEMP designated product.

15          “(2) EXCEPTIONS.—The head of an executive  
16          agency is not required to procure an Energy Star  
17          product or FEMP designated product under para-  
18          graph (1) if the head of the executive agency finds  
19          in writing that—

20                   “(A) an Energy Star product or FEMP  
21                   designated product is not cost-effective over the  
22                   life of the product taking energy cost savings  
23                   into account; or

24                   “(B) no Energy Star product or FEMP  
25                   designated product is reasonably available that

1           meets the functional requirements of the execu-  
2           tive agency.

3           “(3) PROCUREMENT PLANNING.—The head of  
4           an executive agency shall incorporate into the speci-  
5           fications for all procurements involving energy con-  
6           suming products and systems, including guide speci-  
7           fications, project specifications, and construction,  
8           renovation, and services contracts that include provi-  
9           sion of energy consuming products and systems, and  
10          into the factors for the evaluation of offers received  
11          for the procurement, criteria for energy efficiency  
12          that are consistent with the criteria used for rating  
13          Energy Star products and for rating FEMP des-  
14          ignated products.

15          “(c) LISTING OF ENERGY EFFICIENT PRODUCTS IN  
16          FEDERAL CATALOGS.—Energy Star products and FEMP  
17          designated products shall be clearly identified and promi-  
18          nently displayed in any inventory or listing of products  
19          by the General Services Administration or the Defense Lo-  
20          gistics Agency. The General Services Administration or  
21          the Defense Logistics Agency shall supply only Energy  
22          Star products or FEMP designated products for all prod-  
23          uct categories covered by the Energy Star program or the  
24          Federal Energy Management Program, except in cases  
25          where the agency ordering a product specifies in writing

1 that no Energy Star product or FEMP designated product  
2 is available to meet the buyer's functional requirements,  
3 or that no Energy Star product or FEMP designated  
4 product is cost-effective for the intended application over  
5 the life of the product, taking energy cost savings into ac-  
6 count.

7 “(d) DESIGNATION OF ELECTRIC MOTORS.—In the  
8 case of electric motors of 1 to 500 horsepower, agencies  
9 shall select only premium efficient motors that meet a  
10 standard designated by the Secretary. The Secretary shall  
11 designate such a standard within 120 days after the date  
12 of the enactment of this section, after considering the rec-  
13 ommendations of associated electric motor manufacturers  
14 and energy efficiency groups.

15 “(e) REGULATIONS.—Not later than 180 days after  
16 the date of the enactment of this section, the Secretary  
17 shall issue guidelines to carry out this section.”.

18 (b) CONFORMING AMENDMENT.—The table of con-  
19 tents in section 1(b) of the National Energy Conservation  
20 Policy Act (42 U.S.C. 8201 note) is amended by inserting  
21 after the item relating to section 551 the following:

“Sec. 553. Federal procurement of energy efficient products.”.

22 **SEC. 1006. ENERGY SAVINGS PERFORMANCE CONTRACTS.**

23 (a) PERMANENT EXTENSION.—Section 801(c) of the  
24 National Energy Conservation Policy Act (42 U.S.C.  
25 8287(c)) is repealed.



1 (b) REPLACEMENT FACILITIES.—Section 801(a) of  
2 the National Energy Conservation Policy Act (42 U.S.C.  
3 8287(a)) is amended by adding at the end the following  
4 new paragraph:

5 “(3)(A) In the case of an energy savings con-  
6 tract or energy savings performance contract pro-  
7 viding for energy savings through the construction  
8 and operation of one or more buildings or facilities  
9 to replace one or more existing buildings or facilities,  
10 benefits ancillary to the purpose of such contract  
11 under paragraph (1) may include savings resulting  
12 from reduced costs of operation and maintenance at  
13 such replacement buildings or facilities when com-  
14 pared with costs of operation and maintenance at  
15 the buildings or facilities being replaced, established  
16 through a methodology set forth in the contract.

17 “(B) Notwithstanding paragraph (2)(B), aggre-  
18 gate annual payments by an agency under an energy  
19 savings contract or energy savings performance con-  
20 tract referred to in subparagraph (A) may take into  
21 account (through the procedures developed pursuant  
22 to this section) savings resulting from reduced costs  
23 of operation and maintenance as described in that  
24 subparagraph.”.

1       (c) ENERGY SAVINGS.—Section 804(2) of the Na-  
2 tional Energy Conservation Policy Act (42 U.S.C.  
3 8287c(2)) is amended to read as follows:

4           “(2) The term ‘energy savings’ means—

5               “(A) a reduction in the cost of energy or  
6 water, from a base cost established through a  
7 methodology set forth in the contract, used in  
8 an existing federally owned building or build-  
9 ings or other federally owned facilities as a re-  
10 sult of—

11               “(i) the lease or purchase of operating  
12 equipment, improvements, altered oper-  
13 ation and maintenance, or technical serv-  
14 ices;

15               “(ii) the increased efficient use of ex-  
16 isting energy sources by cogeneration or  
17 heat recovery, excluding any cogeneration  
18 process for other than a federally owned  
19 building or buildings or other federally  
20 owned facilities; or

21               “(iii) the increased efficient use of ex-  
22 isting water sources; or

23               “(B) in the case of a replacement building  
24 or facility described in section 801(a)(3), a re-  
25 duction in the cost of energy, from a base cost

1           established through a methodology set forth in  
2           the contract, that would otherwise be utilized in  
3           one or more existing federally owned buildings  
4           or other federally owned facilities by reason of  
5           the construction and operation of the replace-  
6           ment building or facility.”.

7           (d) ENERGY SAVINGS CONTRACT.—Section 804(3) of  
8   the National Energy Conservation Policy Act (42 U.S.C.  
9   8287c(3)) is amended to read as follows:

10           “(3) The terms ‘energy savings contract’ and  
11           ‘energy savings performance contract’ mean a con-  
12           tract which provides for—

13                   “(A) the performance of services for the  
14                   design, acquisition, installation, testing, oper-  
15                   ation, and, where appropriate, maintenance and  
16                   repair, of an identified energy or water con-  
17                   servation measure or series of measures at one  
18                   or more locations; or

19                   “(B) energy savings through the construc-  
20                   tion and operation of one or more buildings or  
21                   facilities to replace one or more existing build-  
22                   ings or facilities.

23           Such contracts shall, with respect to an agency facil-  
24           ity that is a public building as such term is defined  
25           in section 13(1) of the Public Buildings Act of 1959

1 (40 U.S.C. 612(1)), be in compliance with the pro-  
2 spectus requirements and procedures of section 7 of  
3 the Public Buildings Act of 1959 (40 U.S.C. 606).”.

4 (e) ENERGY OR WATER CONSERVATION MEASURE.—  
5 Section 804(4) of the National Energy Conservation Pol-  
6 icy Act (42 U.S.C. 8287c(4)) is amended to read as fol-  
7 lows:

8 “(4) The term ‘energy or water conservation  
9 measure’ means—

10 “(A) an energy conservation measure, as  
11 defined in section 551(4) (42 U.S.C. 8259(4));  
12 or

13 “(B) a water conservation measure that  
14 improves water efficiency, is life cycle cost-effec-  
15 tive, and involves water conservation, water re-  
16 cycling or reuse, more efficient treatment of  
17 wastewater or stormwater, improvements in op-  
18 eration or maintenance efficiencies, retrofit ac-  
19 tivities, or other related activities, not at a Fed-  
20 eral hydroelectric facility.”.

21 (f) REVIEW.—Within 180 days after the date of the  
22 enactment of this section, the Secretary of Energy shall  
23 complete a review of the Energy Savings Performance  
24 Contract program to identify statutory, regulatory, and  
25 administrative obstacles that prevent Federal agencies

1 from fully utilizing the program. In addition, this review  
2 shall identify all areas for increasing program flexibility  
3 and effectiveness, including audit and measurement ver-  
4 ification requirements, accounting for energy use in deter-  
5 mining savings, contracting requirements, and energy effi-  
6 ciency services covered. The Secretary shall report these  
7 findings to the Committee on Energy and Commerce of  
8 the House of Representatives and the Committee on En-  
9 ergy and Natural Resources of the Senate, and shall im-  
10 plement identified administrative and regulatory changes  
11 to increase program flexibility and effectiveness to the ex-  
12 tent that such changes are consistent with statutory au-  
13 thority.

14 **SEC. 1007. VOLUNTARY COMMITMENTS TO REDUCE INDUS-**  
15 **TRIAL ENERGY INTENSITY.**

16 (a) VOLUNTARY AGREEMENTS.—The Secretary of  
17 Energy shall enter into voluntary agreements with one or  
18 more persons in industrial sectors that consume signifi-  
19 cant amounts of primary energy per unit of physical out-  
20 put to reduce the energy intensity of their production ac-  
21 tivities.

22 (b) GOAL.—Voluntary agreements under this section  
23 shall have a goal of reducing energy intensity by not less  
24 than 2.5 percent each year from 2004 through 2014.

1 (c) RECOGNITION.—The Secretary of Energy, in co-  
2 operation with the Administrator of the Environmental  
3 Protection Agency and other appropriate Federal agen-  
4 cies, shall develop mechanisms to recognize and publicize  
5 the achievements of participants in voluntary agreements  
6 under this section.

7 (d) DEFINITION.—In this section, the term “energy  
8 intensity” means the primary energy consumed per unit  
9 of physical output in an industrial process.

10 (e) TECHNICAL ASSISTANCE.—An entity that enters  
11 into an agreement under this section and continues to  
12 make a good faith effort to achieve the energy efficiency  
13 goals specified in the agreement shall be eligible to receive  
14 from the Secretary a grant or technical assistance as ap-  
15 propriate to assist in the achievement of those goals.

16 (f) REPORT.—Not later than June 30, 2010 and  
17 June 30, 2014, the Secretary shall submit to Congress a  
18 report that evaluates the success of the voluntary agree-  
19 ments, with independent verification of a sample of the  
20 energy savings estimates provided by participating firms.

21 **SEC. 1008. FEDERAL AGENCY PARTICIPATION IN DEMAND**  
22 **REDUCTION PROGRAMS.**

23 Section 546(c) of the National Energy Conservation  
24 Policy Act (42 U.S.C. 8256(c)) is amended by adding at  
25 the end of the following new paragraph:

1       “(6) Federal agencies are encouraged to participate  
2 in State or regional demand side reduction programs. The  
3 availability of such programs, including measures employ-  
4 ing onsite generation, and the savings resulting from such  
5 participation, should be included in the evaluation of en-  
6 ergy options for Federal facilities.”.

7       **SEC. 1009. ADVANCED BUILDING EFFICIENCY TESTBED.**

8       (a) ESTABLISHMENT.—The Secretary of Energy, in  
9 consultation with the Administrator of the General Serv-  
10 ices Administration, shall establish an Advanced Building  
11 Efficiency Testbed program for the development, testing,  
12 and demonstration of advanced engineering systems, com-  
13 ponents, and materials to enable innovations in building  
14 technologies. The program shall evaluate efficiency con-  
15 cepts for government and industry buildings, and dem-  
16 onstrate the ability of next generation buildings to support  
17 individual and organizational productivity and health as  
18 well as flexibility and technological change to improve en-  
19 vironmental sustainability. Such program shall com-  
20 plement and not duplicate existing national programs.

21       (b) PARTICIPANTS.—The program established under  
22 subsection (a) shall be led by a university with the ability  
23 to combine the expertise from numerous academic fields  
24 including, at a minimum, intelligent workplaces and ad-  
25 vanced building systems and engineering, electrical and

1 computer engineering, computer science, architecture,  
2 urban design, and environmental and mechanical engi-  
3 neering. Such university shall partner with other univer-  
4 sities and entities who have established programs and the  
5 capability of advancing innovative building efficiency tech-  
6 nologies.

7 (c) AUTHORIZATION OF APPROPRIATIONS.—There  
8 are authorized to be appropriated to the Secretary of En-  
9 ergy to carry out this section \$6,000,000 for each of the  
10 fiscal years 2004 through 2006, to remain available until  
11 expended. For any fiscal year in which funds are expended  
12 under this section, the Secretary shall provide one-third  
13 of the total amount to the lead university described in sub-  
14 section (b), and provide the remaining two-thirds to the  
15 other participants referred to in subsection (b) on an equal  
16 basis.

17 **SEC. 1010. INCREASED USE OF RECOVERED MINERAL COM-**  
18 **PONENT IN FEDERALLY FUNDED PROJECTS**  
19 **INVOLVING PROCUREMENT OF CEMENT OR**  
20 **CONCRETE.**

21 (a) AMENDMENT.—Subtitle F of the Solid Waste  
22 Disposal Act (42 U.S.C. 6961 et seq.) is amended by add-  
23 ing at the end the following new section:



1 “INCREASED USE OF RECOVERED MINERAL COMPONENT  
2 IN FEDERALLY FUNDED PROJECTS INVOLVING PRO-  
3 CUREMENT OF CEMENT OR CONCRETE

4 “SEC. 6005. (a) DEFINITIONS.—In this section:

5 “(1) AGENCY HEAD.—The term ‘agency head’  
6 means—

7 “(A) the Secretary of Transportation; and

8 “(B) the head of each other Federal agen-  
9 cy that on a regular basis procures, or provides  
10 Federal funds to pay or assist in paying the  
11 cost of procuring, material for cement or con-  
12 crete projects.

13 “(2) CEMENT OR CONCRETE PROJECT.—The  
14 term ‘cement or concrete project’ means a project  
15 for the construction or maintenance of a highway or  
16 other transportation facility or a Federal, State, or  
17 local government building or other public facility  
18 that—

19 “(A) involves the procurement of cement  
20 or concrete; and

21 “(B) is carried out in whole or in part  
22 using Federal funds.

23 “(3) RECOVERED MINERAL COMPONENT.—The  
24 term ‘recovered mineral component’ means—

25 “(A) ground granulated blast furnace slag;

1 “(B) coal combustion fly ash; and

2 “(C) any other waste material or byprod-  
3 uct recovered or diverted from solid waste that  
4 the Administrator, in consultation with an  
5 agency head, determines should be treated as  
6 recovered mineral component under this section  
7 for use in cement or concrete projects paid for,  
8 in whole or in part, by the agency head.

9 “(b) IMPLEMENTATION OF REQUIREMENTS.—

10 “(1) IN GENERAL.—Not later than 1 year after  
11 the date of enactment of this section, the Adminis-  
12 trator and each agency head shall take such actions  
13 as are necessary to implement fully all procurement  
14 requirements and incentives in effect as of the date  
15 of enactment of this section (including guidelines  
16 under section 6002) that provide for the use of ce-  
17 ment and concrete incorporating recovered mineral  
18 component in cement or concrete projects.

19 “(2) PRIORITY.—In carrying out paragraph (1)  
20 an agency head shall give priority to achieving great-  
21 er use of recovered mineral component in cement or  
22 concrete projects for which recovered mineral compo-  
23 nents historically have not been used or have been  
24 used only minimally.

1           “(3) CONFORMANCE.—The Administrator and  
2           each agency head shall carry out this subsection in  
3           accordance with section 6002.

4           “(c) FULL IMPLEMENTATION STUDY.—

5           “(1) IN GENERAL.—The Administrator, in co-  
6           operation with the Secretary of Transportation and  
7           the Secretary of Energy, shall conduct a study to de-  
8           termine the extent to which current procurement re-  
9           quirements, when fully implemented in accordance  
10          with subsection (b), may realize energy savings and  
11          environmental benefits attainable with substitution  
12          of recovered mineral component in cement used in  
13          cement or concrete projects.

14          “(2) MATTERS TO BE ADDRESSED.—The study  
15          shall—

16                 “(A) quantify the extent to which recov-  
17                 ered mineral components are being substituted  
18                 for Portland cement, particularly as a result of  
19                 current procurement requirements, and the en-  
20                 ergy savings and environmental benefits associ-  
21                 ated with that substitution;

22                 “(B) identify all barriers in procurement  
23                 requirements to fuller realization of energy sav-  
24                 ings and environmental benefits, including bar-

1           riers resulting from exceptions from current  
2           law; and

3               “(C)(i) identify potential mechanisms to  
4           achieve greater substitution of recovered min-  
5           eral component in types of cement or concrete  
6           projects for which recovered mineral compo-  
7           nents historically have not been used or have  
8           been used only minimally;

9               “(ii) evaluate the feasibility of establishing  
10          guidelines or standards for optimized substi-  
11          tution rates of recovered mineral component in  
12          those cement or concrete projects; and

13               “(iii) identify any potential environmental  
14          or economic effects that may result from great-  
15          er substitution of recovered mineral component  
16          in those cement or concrete projects.

17               “(3) REPORT.—Not later than 30 months after  
18          the date of enactment of this section, the Adminis-  
19          trator shall submit to the Committee on Appropria-  
20          tions and Committee on Environment and Public  
21          Works of the Senate and the Committee on Appro-  
22          priations, Committee on Energy and Commerce, and  
23          Committee on Transportation and Infrastructure of  
24          the House of Representatives a report on the study.

1       “(d) ADDITIONAL PROCUREMENT REQUIREMENTS.—  
2 Unless the study conducted under subsection (c) identifies  
3 any effects or other problems described in subsection  
4 (c)(2)(C)(iii) that warrant further review or delay, the Ad-  
5 ministrator and each agency head shall, within 1 year of  
6 the release of the report in accordance with subsection  
7 (c)(3), take additional actions authorized under this Act  
8 to establish procurement requirements and incentives that  
9 provide for the use of cement and concrete with increased  
10 substitution of recovered mineral component in the con-  
11 struction and maintenance of cement or concrete projects,  
12 so as to—

13               “(1) realize more fully the energy savings and  
14 environmental benefits associated with increased  
15 substitution; and

16               “(2) eliminate barriers identified under sub-  
17 section (c).

18       “(e) EFFECT OF SECTION.—Nothing in this section  
19 affects the requirements of section 6002 (including the  
20 guidelines and specifications for implementing those re-  
21 quirements).”.

22       (b) TABLE OF CONTENTS AMENDMENT.—The table  
23 of contents of the Solid Waste Disposal Act is amended  
24 by adding after the item relating to section 6004 the fol-  
25 lowing new item:

“Sec. 6005. Increased use of recovered mineral component in federally funded projects involving procurement of cement or concrete.”.

## 1   **Subtitle B—Energy Assistance and** 2                   **State Programs**

### 3   **SEC. 1021. LIHEAP AND WEATHERIZATION ASSISTANCE.**

4           (a) LOW-INCOME HOME ENERGY ASSISTANCE PRO-  
5   GRAM.—Section 2602(b) of the Low-Income Home Energy  
6   Assistance Act of 1981 (42 U.S.C. 8621(b)) is amended  
7   by striking “each of fiscal years 2002 through 2004” and  
8   inserting “each of fiscal years 2002 and 2003, and  
9   \$3,400,000,000 for each of fiscal years 2004 through  
10  2006”.

11          (b) WEATHERIZATION.—Section 422 of the Energy  
12  Conservation and Production Act (42 U.S.C. 6872) is  
13  amended by striking “for fiscal years 1999 through 2003  
14  such sums as may be necessary” and inserting  
15  “\$325,000,000 for fiscal year 2004, \$400,000,000 for fis-  
16  cal year 2005, and \$500,000,000 for fiscal year 2006”.

### 17   **SEC. 1022. STATE ENERGY PROGRAMS.**

18          (a) STATE ENERGY CONSERVATION PLANS.—Section  
19  362 of the Energy Policy and Conservation Act (42 U.S.C.  
20  6322) is amended by inserting at the end the following  
21  new subsection:

22           “(g) The Secretary shall, at least once every 3 years,  
23  invite the Governor of each State to review and, if nec-  
24  essary, revise the energy conservation plan of such State

1 submitted under subsection (b) or (e). Such reviews should  
2 consider the energy conservation plans of other States  
3 within the region, and identify opportunities and actions  
4 carried out in pursuit of common energy conservation  
5 goals.”.

6 (b) STATE ENERGY EFFICIENCY GOALS.—Section  
7 364 of the Energy Policy and Conservation Act (42 U.S.C.  
8 6324) is amended to read as follows:

9 “STATE ENERGY EFFICIENCY GOALS  
10 “SEC. 364. Each State energy conservation plan with  
11 respect to which assistance is made available under this  
12 part on or after the date of enactment of the Energy Pol-  
13 icy Act of 2003 shall contain a goal, consisting of an im-  
14 provement of 25 percent or more in the efficiency of use  
15 of energy in the State concerned in calendar year 2010  
16 as compared to calendar year 1990, and may contain in-  
17 terim goals.”.

18 (c) AUTHORIZATION OF APPROPRIATIONS.—Section  
19 365(f) of the Energy Policy and Conservation Act (42  
20 U.S.C. 6325(f)) is amended by striking “for fiscal years  
21 1999 through 2003 such sums as may be necessary” and  
22 inserting “\$100,000,000 for each of the fiscal years 2004  
23 and 2005 and \$125,000,000 for fiscal year 2006”.

24 **SEC. 1023. ENERGY EFFICIENT APPLIANCE REBATE PRO-**  
25 **GRAMS.**

26 (a) DEFINITIONS.—In this section:

1           (1) ELIGIBLE STATE.—The term “eligible  
2     State” means a State that meets the requirements  
3     of subsection (b).

4           (2) ENERGY STAR PROGRAM.—The term “En-  
5     ergy Star program” means the program established  
6     by section 324A of the Energy Policy and Conserva-  
7     tion Act.

8           (3) RESIDENTIAL ENERGY STAR PRODUCT.—  
9     The term “residential Energy Star product” means  
10    a product for a residence that is rated for energy ef-  
11    ficiency under the Energy Star program.

12          (4) STATE ENERGY OFFICE.—The term “State  
13    energy office” means the State agency responsible  
14    for developing State energy conservation plans under  
15    section 362 of the Energy Policy and Conservation  
16    Act (42 U.S.C. 6322).

17          (5) STATE PROGRAM.—The term “State pro-  
18    gram” means a State energy efficient appliance re-  
19    bate program described in subsection (b)(1).

20          (b) ELIGIBLE STATES.—A State shall be eligible to  
21    receive an allocation under subsection (c) if the State—

22           (1) establishes (or has established) a State en-  
23    ergy efficient appliance rebate program to provide  
24    rebates to residential consumers for the purchase of



1 residential Energy Star products to replace used ap-  
2 pliances of the same type;

3 (2) submits an application for the allocation at  
4 such time, in such form, and containing such infor-  
5 mation as the Secretary may require; and

6 (3) provides assurances satisfactory to the Sec-  
7 retary that the State will use the allocation to sup-  
8 plement, but not supplant, funds made available to  
9 carry out the State program.

10 (c) AMOUNT OF ALLOCATIONS.—

11 (1) IN GENERAL.—Subject to paragraph (2),  
12 for each fiscal year, the Secretary shall allocate to  
13 the State energy office of each eligible State to carry  
14 out subsection (d) an amount equal to the product  
15 obtained by multiplying the amount made available  
16 under subsection (f) for the fiscal year by the ratio  
17 that the population of the State in the most recent  
18 calendar year for which data are available bears to  
19 the total population of all eligible States in that cal-  
20 endar year.

21 (2) MINIMUM ALLOCATIONS.—For each fiscal  
22 year, the amounts allocated under this subsection  
23 shall be adjusted proportionately so that no eligible  
24 State is allocated a sum that is less than an amount  
25 determined by the Secretary.

1 (d) USE OF ALLOCATED FUNDS.—The allocation to  
2 a State energy office under subsection (c) may be used  
3 to pay up to 50 percent of the cost of establishing and  
4 carrying out a State program.

5 (e) ISSUANCE OF REBATES.—Rebates may be pro-  
6 vided to residential consumers that meet the requirements  
7 of the State program. The amount of a rebate shall be  
8 determined by the State energy office, taking into  
9 consideration—

10 (1) the amount of the allocation to the State  
11 energy office under subsection (c);

12 (2) the amount of any Federal or State tax in-  
13 centive available for the purchase of the residential  
14 Energy Star product; and

15 (3) the difference between the cost of the resi-  
16 dential Energy Star product and the cost of an ap-  
17pliance that is not a residential Energy Star prod-  
18uct, but is of the same type as, and is the nearest  
19capacity, performance, and other relevant character-  
20istics (as determined by the State energy office) to  
21the residential Energy Star product.

22 (f) AUTHORIZATION OF APPROPRIATIONS.—There  
23 are authorized to be appropriated to carry out this section  
24 \$50,000,000 for each of the fiscal years 2004 through  
25 2008.

1 **SEC. 1024. ENERGY EFFICIENT PUBLIC BUILDINGS.**

2 (a) GRANTS.—The Secretary of Energy may make  
3 grants to the State agency responsible for developing State  
4 energy conservation plans under section 362 of the Energy  
5 Policy and Conservation Act (42 U.S.C. 6322), or, if no  
6 such agency exists, a State agency designated by the Gov-  
7 ernor of the State, to assist units of local government in  
8 the State in improving the energy efficiency of public  
9 buildings and facilities—

10 (1) through construction of new energy efficient  
11 public buildings that use at least 30 percent less en-  
12 ergy than a comparable public building constructed  
13 in compliance with standards prescribed in chapter  
14 8 of the 2000 International Energy Conservation  
15 Code, or a similar State code intended to achieve  
16 substantially equivalent efficiency levels; or

17 (2) through renovation of existing public build-  
18 ings to achieve reductions in energy use of at least  
19 30 percent as compared to the baseline energy use  
20 in such buildings prior to renovation, assuming a 3-  
21 year, weather-normalized average for calculating  
22 such baseline.

23 (b) ADMINISTRATION.—State energy offices receiving  
24 grants under this section shall—

25 (1) maintain such records and evidence of com-  
26 pliance as the Secretary may require; and

1           (2) develop and distribute information and ma-  
2           terials and conduct programs to provide technical  
3           services and assistance to encourage planning, fi-  
4           nancing, and design of energy efficient public build-  
5           ings by units of local government.

6           (c) AUTHORIZATION OF APPROPRIATIONS.—For the  
7           purposes of this section, there are authorized to be appro-  
8           priated to the Secretary of Energy such sums as may be  
9           necessary for each of fiscal years 2004 through 2013. Not  
10          more than 30 percent of appropriated funds shall be used  
11          for administration.

12   **SEC. 1025. LOW INCOME COMMUNITY ENERGY EFFICIENCY**  
13                           **PILOT PROGRAM.**

14          (a) GRANTS.—The Secretary of Energy is authorized  
15          to make grants to units of local government, private, non-  
16          profit community development organizations, and Indian  
17          tribe economic development entities to improve energy effi-  
18          ciency, identify and develop alternative renewable and dis-  
19          tributed energy supplies, and increase energy conservation  
20          in low income rural and urban communities.

21          (b) PURPOSE OF GRANTS.—The Secretary may make  
22          grants on a competitive basis for—

23                (1) investments that develop alternative renew-  
24                able and distributed energy supplies;

1           (2) energy efficiency projects and energy con-  
2           servation programs;

3           (3) studies and other activities that improve en-  
4           ergy efficiency in low income rural and urban com-  
5           munities;

6           (4) planning and development assistance for in-  
7           creasing the energy efficiency of buildings and facili-  
8           ties; and

9           (5) technical and financial assistance to local  
10          government and private entities on developing new  
11          renewable and distributed sources of power or com-  
12          bined heat and power generation.

13       (c) DEFINITION.—For purposes of this section, the  
14       term “Indian tribe” means any Indian tribe, band, nation,  
15       or other organized group or community, including any  
16       Alaskan Native village or regional or village corporation  
17       as defined in or established pursuant to the Alaska Native  
18       Claims Settlement Act (43 U.S.C. 1601 et seq.), which  
19       is recognized as eligible for the special programs and serv-  
20       ices provided by the United States to Indians because of  
21       their status as Indians.

22       (d) AUTHORIZATION OF APPROPRIATIONS.—For the  
23       purposes of this section there are authorized to be appro-  
24       priated to the Secretary of Energy \$20,000,000 for fiscal

1 year 2004 and each fiscal year thereafter through fiscal  
2 year 2006.

3           **Subtitle C—Energy Efficient**  
4                           **Products**

5   **SEC. 1041. ENERGY STAR PROGRAM.**

6           (a) AMENDMENT.—The Energy Policy and Conserva-  
7 tion Act (42 U.S.C. 6201 and following) is amended by  
8 inserting the following after section 324:

9   **“SEC. 324A. ENERGY STAR PROGRAM.**

10           “There is established at the Department of Energy  
11 and the Environmental Protection Agency a program to  
12 identify and promote energy-efficient products and build-  
13 ings in order to reduce energy consumption, improve en-  
14 ergy security, and reduce pollution through labeling of and  
15 other forms of communication about products and build-  
16 ings that meet the highest energy efficiency standards. Re-  
17 sponsibilities under the program shall be divided between  
18 the Department of Energy and the Environmental Protec-  
19 tion Agency consistent with the terms of agreements be-  
20 tween the two agencies. The Administrator and the Sec-  
21 retary shall—

22                   “(1) promote Energy Star compliant tech-  
23 nologies as the preferred technologies in the market-  
24 place for achieving energy efficiency and to reduce  
25 pollution;

1 “(2) work to enhance public awareness of the  
2 Energy Star label, including special outreach to  
3 small businesses;

4 “(3) preserve the integrity of the Energy Star  
5 label; and

6 “(4) solicit the comments of interested parties  
7 in establishing a new Energy Star product category  
8 or in revising a product category, and upon adoption  
9 of a new or revised product category provide an ex-  
10 planation of the decision that responds to significant  
11 public comments.”.

12 (b) TABLE OF CONTENTS AMENDMENT.—The table  
13 of contents of the Energy Policy and Conservation Act is  
14 amended by inserting after the item relating to section  
15 324 the following new item:

“Sec. 324A. Energy Star program.”.

16 **SEC. 1042. CONSUMER EDUCATION ON ENERGY EFFI-**  
17 **CIENCY BENEFITS OF AIR CONDITIONING,**  
18 **HEATING, AND VENTILATION MAINTENANCE.**

19 Section 337 of the Energy Policy and Conservation  
20 Act (42 U.S.C. 6307) is amended by adding at the end  
21 the following:

22 “(c) HVAC MAINTENANCE.—(1) For the purpose of  
23 ensuring that installed air conditioning and heating sys-  
24 tems operate at their maximum rated efficiency levels, the

1 Secretary shall, within 180 days of the date of enactment  
2 of this subsection, carry out a program to educate home-  
3 owners and small business owners concerning the energy  
4 savings resulting from properly conducted maintenance of  
5 air conditioning, heating, and ventilating systems.

6 “(2) The Secretary shall carry out the program in  
7 cooperation with the Administrator of the Environmental  
8 Protection Agency and such other entities as the Secretary  
9 considers appropriate, including industry trade associa-  
10 tions, industry members, and energy efficiency organiza-  
11 tions.

12 “(d) SMALL BUSINESS EDUCATION AND ASSIST-  
13 ANCE.—The Administrator of the Small Business Admin-  
14 istration, in consultation with the Secretary of Energy and  
15 the Administrator of the Environmental Protection Agen-  
16 cy, shall develop and coordinate a Government-wide pro-  
17 gram, building on the existing Energy Star for Small  
18 Business Program, to assist small business to become  
19 more energy efficient, understand the cost savings obtain-  
20 able through efficiencies, and identify financing options  
21 for energy efficiency upgrades. The Secretary and the Ad-  
22 ministrator shall make the program information available  
23 directly to small businesses and through other Federal  
24 agencies, including the Federal Emergency Management  
25 Agency, and the Department of Agriculture.”.



1 **SEC. 1043. ADDITIONAL DEFINITIONS.**

2 Section 321 of the Energy Policy and Conservation  
3 Act (42 U.S.C. 6291) is amended by adding at the end  
4 the following:

5 “(32) The term ‘battery charger’ means a de-  
6 vice that charges batteries for consumer products.

7 “(33) The term ‘commercial refrigerator, freez-  
8 er and refrigerator-freezer’ means a refrigerator,  
9 freezer or refrigerator-freezer that—

10 “(A) is not a consumer product regulated  
11 under this Act; and

12 “(B) incorporates most components in-  
13 volved in the vapor-compression cycle and the  
14 refrigerated compartment in a single package.

15 “(34) The term ‘external power supply’ means  
16 an external power supply circuit that is used to con-  
17 vert household electric current into either DC cur-  
18 rent or lower-voltage AC current to operate a con-  
19 sumer product.

20 “(35) The term ‘illuminated exit sign’ means a  
21 sign that—

22 “(A) is designed to be permanently fixed in  
23 place to identify an exit; and

24 “(B) consists of—

1                   “(i) an electrically powered integral  
2                   light source that illuminates the legend  
3                   ‘EXIT’ and any directional indicators; and  
4                   “(ii) provides contrast between the  
5                   legend, any directional indicators, and the  
6                   background.

7                   “(36)(A) Except as provided in subparagraph  
8                   (B), the term ‘low-voltage dry-type transformer’  
9                   means a transformer that—

10                   “(i) has an input voltage of 600 volts or  
11                   less;

12                   “(ii) is air-cooled;

13                   “(iii) does not use oil as a coolant; and

14                   “(iv) is rated for operation at a frequency  
15                   of 60 Hertz.

16                   “(B) The term ‘low-voltage dry-type trans-  
17                   former’ does not include—

18                   “(i) transformers with multiple voltage  
19                   taps, with the highest voltage tap equaling at  
20                   least 20 percent more than the lowest voltage  
21                   tap;

22                   “(ii) transformers that are designed to be  
23                   used in a special purpose application, such as  
24                   transformers commonly known as drive trans-  
25                   formers,                   rectifier                   transformers,

1 autotransformers, Uninterruptible Power Sys-  
2 tem transformers, impedance transformers, har-  
3 monic transformers, regulating transformers,  
4 sealed and nonventilating transformers, ma-  
5 chine tool transformers, welding transformers,  
6 grounding transformers, or testing trans-  
7 formers; or

8 “(iii) any transformer not listed in clause  
9 (ii) that is excluded by the Secretary by rule be-  
10 cause the transformer is designed for a special  
11 application and the application of standards to  
12 the transformer would not result in significant  
13 energy savings.

14 “(37) The term ‘standby mode’ means the low-  
15 est amount of electric power used by a household ap-  
16 pliance when not performing its active functions, as  
17 defined on an individual product basis by the Sec-  
18 retary.

19 “(38) The term ‘torchiera’ means a portable  
20 electric lamp with a reflector bowl that directs light  
21 upward so as to give indirect illumination.

22 “(39) The term ‘transformer’ means a device  
23 consisting of two or more coils of insulated wire that  
24 transfers alternating current by electromagnetic in-

1       duction from one coil to another to change the origi-  
2       nal voltage or current value.

3           “(40) The term ‘unit heater’ means a self-con-  
4       tained fan-type heater designed to be installed with-  
5       in the heated space, except that such term does not  
6       include a warm air furnace.

7           “(41) The term ‘traffic signal module’ means a  
8       standard 8-inch (200mm) or 12-inch (300mm) traf-  
9       fic signal indication, consisting of a light source, a  
10      lens, and all other parts necessary for operation,  
11      that communicates movement messages to drivers  
12      through red, amber, and green colors.”.

13   **SEC. 1044. ADDITIONAL TEST PROCEDURES.**

14      (a) EXIT SIGNS.—Section 323(b) of the Energy Pol-  
15      icy and Conservation Act (42 U.S.C. 6293) is amended  
16      by adding at the end the following:

17           “(9) Test procedures for illuminated exit signs  
18      shall be based on the test method used under Ver-  
19      sion 2.0 of the Energy Star program of the Environ-  
20      mental Protection Agency for illuminated exit signs.

21           “(10) Test procedures for low voltage dry-type  
22      distribution transformers shall be based on the  
23      ‘Standard Test Method for Measuring the Energy  
24      Consumption of Distribution Transformers’ pre-  
25      scribed by the National Electrical Manufacturers As-

1       sociation (NEMA TP 2–1998). The Secretary may  
2       review and revise this test procedure based on future  
3       revisions to such standard test method.

4           “(11) Test procedures for traffic signal modules  
5       shall be based on the test method used under the  
6       Energy Star program of the Environmental Protec-  
7       tion Agency for traffic signal modules, as in effect  
8       on the date of enactment of this paragraph.”.

9       (b) ADDITIONAL CONSUMER AND COMMERCIAL  
10    PRODUCTS.—Section 323 of the Energy Policy and Con-  
11    servation Act (42 U.S.C. 6293) is further amended by  
12    adding at the end the following:

13       “(f) ADDITIONAL CONSUMER AND COMMERCIAL  
14    PRODUCTS.—The Secretary shall within 24 months after  
15    the date of enactment of this subsection prescribe testing  
16    requirements for suspended ceiling fans, refrigerated bot-  
17    tled or canned beverage vending machines, commercial  
18    unit heaters, and commercial refrigerators, freezers and  
19    refrigerator-freezers. Such testing requirements shall be  
20    based on existing test procedures used in industry to the  
21    extent practical and reasonable. In the case of suspended  
22    ceiling fans, such test procedures shall include efficiency  
23    at both maximum output and at an output no more than  
24    50 percent of the maximum output.”.

1   **SEC. 1045. ENERGY CONSERVATION STANDARDS FOR ADDI-**  
2                           **TIONAL CONSUMER AND COMMERCIAL PROD-**  
3                           **UCTS.**

4       Section 325 of the Energy Policy and Conservation  
5 Act (42 U.S.C. 6295) is amended by adding at the end  
6 the following:

7       “(u) STANDBY MODE ELECTRIC ENERGY CONSUMP-  
8 TION.—

9               “(1) INITIAL RULEMAKING.—(A) The Secretary  
10 shall, within 18 months after the date of enactment  
11 of this subsection, prescribe by notice and comment,  
12 definitions of standby mode and test procedures for  
13 the standby mode power use of battery chargers and  
14 external power supplies. In establishing these test  
15 procedures, the Secretary shall consider, among  
16 other factors, existing test procedures used for meas-  
17 uring energy consumption in standby mode and as-  
18 sess the current and projected future market for  
19 battery chargers and external power supplies. This  
20 assessment shall include estimates of the significance  
21 of potential energy savings from technical improve-  
22 ments to these products and suggested product  
23 classes for standards. Prior to the end of this time  
24 period, the Secretary shall hold a scoping workshop  
25 to discuss and receive comments on plans for devel-

1       oping energy conservation standards for standby  
2       mode energy use for these products.

3           “(B) The Secretary shall, within 3 years after  
4       the date of enactment of this subsection, issue a  
5       final rule that determines whether energy conserva-  
6       tion standards shall be promulgated for battery  
7       chargers and external power supplies or classes  
8       thereof. For each product class, any such standards  
9       shall be set at the lowest level of standby energy use  
10      that—

11           “(i) meets the criteria of subsections (o),  
12           (p), (q), (r), (s) and (t); and

13           “(ii) will result in significant overall an-  
14      nual energy savings, considering both standby  
15      mode and other operating modes.

16           “(2) DESIGNATION OF ADDITIONAL COVERED  
17      PRODUCTS.—(A) Not later than 180 days after the  
18      date of enactment of this subsection, the Secretary  
19      shall publish for public comment and public hearing  
20      a notice to determine whether any noncovered prod-  
21      ucts should be designated as covered products for  
22      the purpose of instituting a rulemaking under this  
23      section to determine whether an energy conservation  
24      standard restricting standby mode energy consump-  
25      tion, should be promulgated; except that any restric-

1       tion on standby mode energy consumption shall be  
2       limited to major sources of such consumption.

3           “(B) In making the determinations pursuant to  
4       subparagraph (A) of whether to designate new cov-  
5       ered products and institute rulemakings, the Sec-  
6       retary shall, among other relevant factors and in ad-  
7       dition to the criteria in section 322(b), consider—

8           “(i) standby mode power consumption  
9       compared to overall product energy consump-  
10      tion; and

11          “(ii) the priority and energy savings poten-  
12      tial of standards which may be promulgated  
13      under this subsection compared to other re-  
14      quired rulemakings under this section and the  
15      available resources of the Department to con-  
16      duct such rulemakings.

17          “(C) Not later than 1 year after the date of en-  
18      actment of this subsection, the Secretary shall issue  
19      a determination of any new covered products for  
20      which he intends to institute rulemakings on standby  
21      mode pursuant to this section and he shall state the  
22      dates by which he intends to initiate those  
23      rulemakings.

24          “(3) REVIEW OF STANDBY ENERGY USE IN  
25      COVERED PRODUCTS.—In determining pursuant to



1       section 323 whether test procedures and energy con-  
2       servation standards pursuant to this section should  
3       be revised, the Secretary shall consider for covered  
4       products which are major sources of standby mode  
5       energy consumption whether to incorporate standby  
6       mode into such test procedures and energy conserva-  
7       tion standards, taking into account, among other  
8       relevant factors, the criteria for non-covered prod-  
9       ucts in subparagraph (B) of paragraph (2) of this  
10      subsection.

11           “(4) RULEMAKING FOR STANDBY MODE.—(A)  
12      Any rulemaking instituted under this subsection or  
13      for covered products under this section which re-  
14      stricts standby mode power consumption shall be  
15      subject to the criteria and procedures for issuing en-  
16      ergy conservation standards set forth in this section  
17      and the criteria set forth in subparagraph (B) of  
18      paragraph (2) of this subsection.

19           “(B) No standard can be proposed for new cov-  
20      ered products or covered products in a standby mode  
21      unless the Secretary has promulgated applicable test  
22      procedures for each product pursuant to section 323.

23           “(C) The provisions of section 327 shall apply  
24      to new covered products which are subject to the

1 rulemakings for standby mode after a final rule has  
2 been issued.

3 “(5) EFFECTIVE DATE.—Any standard promul-  
4 gated under this subsection shall be applicable to  
5 products manufactured or imported 3 years after the  
6 date of promulgation.

7 “(6) VOLUNTARY PROGRAMS TO REDUCE  
8 STANDBY MODE ENERGY USE.—The Secretary and  
9 the Administrator shall collaborate and develop pro-  
10 grams, including programs pursuant to section 324A  
11 (relating to Energy Star Programs) and other vol-  
12 untary industry agreements or codes of conduct,  
13 which are designed to reduce standby mode energy  
14 use.

15 “(v) SUSPENDED CEILING FANS, VENDING MA-  
16 CHINES, UNIT HEATERS, AND COMMERCIAL REFRIG-  
17 ERATORS, FREEZERS AND REFRIGERATOR-FREEZERS.—  
18 The Secretary shall within 24 months after the date on  
19 which testing requirements are prescribed by the Sec-  
20 retary pursuant to section 323(f), prescribe, by rule, en-  
21 ergy conservation standards for suspended ceiling fans, re-  
22 frigerated bottled or canned beverage vending machines,  
23 unit heaters, and commercial refrigerators, freezers and  
24 refrigerator-freezers. In establishing standards under this  
25 subsection, the Secretary shall use the criteria and proce-

1 dures contained in subsections (l) and (m). Any standard  
2 prescribed under this subsection shall apply to products  
3 manufactured 3 years after the date of publication of a  
4 final rule establishing such standard.

5 “(w) ILLUMINATED EXIT SIGNS.—Illuminated exit  
6 signs manufactured on or after January 1, 2005 shall  
7 meet the Version 2.0 Energy Star Program performance  
8 requirements for illuminated exit signs prescribed by the  
9 Environmental Protection Agency

10 “(x) TORCHIERES.—Torchieres manufactured on or  
11 after January 1, 2005—

12 “(1) shall consume not more than 190 watts of  
13 power; and

14 “(2) shall not be capable of operating with  
15 lamps that total more than 190 watts.

16 “(y) LOW VOLTAGE DRY-TYPE TRANSFORMERS.—  
17 The efficiency of low voltage dry-type transformers manu-  
18 factured on or after January 1, 2005 shall be the Class  
19 I Efficiency Levels for low voltage dry-type transformers  
20 specified in Table 4–2 of the ‘Guide for Determining En-  
21 ergy Efficiency for Distribution Transformers’ published  
22 by the National Electrical Manufacturers Association  
23 (NEMA TP–1–1996).

24 “(z) TRAFFIC SIGNAL MODULES.—Traffic signal  
25 modules manufactured on or after January 1, 2006 shall

1 meet the performance requirements used under the En-  
2 ergy Star program of the Environmental Protection Agen-  
3 cy for traffic signals, as in effect on the date of enactment  
4 of this paragraph, and shall be installed with compatible,  
5 electrically-connected signal control interface devices and  
6 conflict monitoring systems.

7 “(aa) EFFECTIVE DATE OF SECTION 327.—The pro-  
8 visions of section 327 shall apply to products for which  
9 standards are set in subsections (v) through (z) of this  
10 section after the effective date for such standards.”.

11 **SEC. 1046. ENERGY LABELING.**

12 (a) RULEMAKING ON EFFECTIVENESS OF CONSUMER  
13 PRODUCT LABELING.—Paragraph (2) of section 324(a) of  
14 the Energy Policy and Conservation Act (42 U.S.C.  
15 6294(a)(2)) is amended by adding at the end the fol-  
16 lowing:

17 “(F) Not later than 3 months after the date of enact-  
18 ment of this subparagraph, the Commission shall initiate  
19 a rulemaking to consider the effectiveness of the current  
20 consumer products labeling program in assisting con-  
21 sumers in making purchasing decisions and improving en-  
22 ergy efficiency and to consider changes to the labeling  
23 rules that would improve the effectiveness of consumer  
24 product labels. Such rulemaking shall be completed within

1 2 years after the date of enactment of this subpara-  
2 graph.”.

3 (b) RULEMAKING ON LABELING FOR ADDITIONAL  
4 PRODUCTS.—Section 324(a) of the Energy Policy and  
5 Conservation Act (42 U.S.C. 6294(a)) is further amended  
6 by adding at the end the following:

7 “(5) The Secretary or the Commission, as appro-  
8 priate, may for covered products referred to in subsections  
9 (u) through (z) of section 325, prescribe, by rule, pursuant  
10 to this section, labeling requirements for such products  
11 after a test procedure has been set pursuant to section  
12 323.”.

13 **SEC. 1047. STUDY OF ENERGY EFFICIENCY STANDARDS.**

14 The Secretary of Energy shall contract with the Na-  
15 tional Academy of Sciences for a study, to be completed  
16 within 1 year of enactment of this Act, to examine whether  
17 the goals of energy efficiency standards are best served  
18 by measurement of energy consumed, and efficiency im-  
19 provements, at the actual site of energy consumption, or  
20 through the full fuel cycle, beginning at the source of en-  
21 ergy production. The Secretary shall submit the report to  
22 the Congress.